

**ABSTRACT**

In the manufacture of a semiconductor device, an arrangement for forming a layer on a semiconductor substrate compensates for variations in wafer substrate reflectivity.

- 5 The arrangement includes providing substrate illumination and then adjusting the illumination on the substrate. The arrangement also includes controlling the dispensation of material over the substrate as a function of the adjusted illumination. By compensating for variations in wafer substrate reflectivity, manufacturing processes can realize more consistent photoresist coatings on wafer substrates from one wafer lot to another.